

2002 Pesticide Exceptions Granted – Valid through August 2003

Herbicides

Product	Target Pest	Active Ingredient	Hazard Trigger	Site or Use Considerations	Decision
Root X	Roots in sanitary sewer mains and combined CB/inlets	Dichlobenil	Persistent, mobile metabolite	This product is only used in sewer mains and catch basin inlets. Use has been approved by Metro.	Approved: This product should only be used June-September to minimize potential for release to the environment due to combined sewer overflows.
Blackberry Brush Block One-time exception for experimental purposes – Seattle Center only	Weeds in concrete pavers around the International Fountain	Acetic acid	Danger warning due to potential for irreversible eye damage	This product will be used to control weeds between pavers around the International Fountain at the Seattle Center to evaluate its effectiveness.	Approved: This product is approved for limited use by Seattle Center in the pavers around the International Fountain. Strict adherence to employee protection requirements will be followed. The evaluation of effectiveness will be shared with all departments.
Norosac 4G	Weeds in electrical facilities	dichlobenil	Persistent, mobile metabolite	This product is requested for selected high voltage areas or selected spots with recurring weed problems within the following electrical facilities: <u>Electrical Receiving Substations, Cable Terminuses, and Switchyards</u> : Weed-free gravel is necessary to protect the insulative capacity of the gravel in these facilities. Weeds create an electrocution hazard. Vegetation is allowed in selected areas of the substation interior as long as it does not pose an electrocution hazard. Substations are restricted access areas not open to the public. Tier 2 products are used for the majority of herbicide applications; however, Norosac in granular form is needed for application from outside the fence line for selected high voltage areas within the substations that have highly restricted access.	Approved. Use of Norosac is approved for the listed electrical facilities due to no or low weed tolerance thresholds to maintain electrical safety. These products are not to be applied within 50 feet of surface water. City Light worked with WSU Cooperative extension staff to assess options and no alternatives could be identified.

				<p><u>Commercial and Industrial Substations</u>: Vegetation is managed to comply with electrical safety codes, maintain access to equipment, reduce fire hazards, allow airflow for cooling of oil and reduce the possibility of arcing. There are nearly 400 of these facilities requiring vegetation management. Tier 2 products are used for the majority of herbicide application, except problem sites with recurring weeds not responding to other products, and sites with access problems. Access to some sites requires an electrical safety watch and sometimes an outage. Therefore, granular herbicides which can be applied from outside the fenceline are necessary. The public does not have access to these facilities.</p>	
Casaron, Casaron 4G	Horsetail	Dichlobenil	Persistent, mobile metabolite	<p>Horsetail is a very difficult to manage invasive plant. Lasting control is difficult to achieve due to the high level of food reserves stored in the rhizome.</p>	<p>Approved. Use of Casaron for horsetail in ornamental beds is approved with the following Best Management Practice: Casaron may be used during late winter or early spring only. The site should be weeded prior to application (but not tilled) and mulched after application. If well-weeded before application, only one application per year should be necessary (removing tops of weeds only will not be effective as Casaron will not kill mature root systems). Application should occur before a cold light rain (but <u>not</u> before a heavy rain) or follow by adequate moisture to activate the product. Do not apply within 50 feet of surface water or to slopes directly above surface water or desirable plantings due to potential to migrate. In problem areas, install plants to shade out horsetail if possible. The effectiveness of compost tea in enhancing soil fertility to inhibit horsetail was assessed and shown to have no appreciable effect.</p>

Insecticides

Product	Target Pest	Active Ingredient	Hazard Trigger	Site or Use Considerations	Decision
Tempo 20WP	Ants and roaches in soils and on plants	cyfluthrin	Restricted use, off-target toxicity – highly toxic to bees	Zoo greenhouse and nursery use only Plants arrive from sources such as Florida where these pests are common. Product is used in a contained nursery area.	Approved: Purchase contracts include a requirement to screen for these pests. Spraying and drenching should not result in runoff. Any runoff will be collected and reused or properly disposed.
Avid	Mites	avermectin	Highly toxic to bees	Greenhouse, nursery	Approved: These products are used only when monitoring indicates infestation is high (>10 on a sticky trap). At lower population levels, monitoring, biological control and lower Tier products are used.
Pentac Aquaflow		Dienochlor	persistent	Products are used in rotation to prevent resistance.	
Marathon II (???), Marathon 1G	Whitefly, mealy bugs, root mealybugs, scale fungus gnats, adelgids, and aphids	imidacloprid	Persistent, aquatic toxicity	Greenhouse, nursery, and interior use only Use of a soil drench allows for concurrent use of beneficials.	Decision is pending additional information regarding drench waste management.
B-Nine WSG	Growth regulator Chrysanthemums	daminozide	Probable carcinogen	Greenhouse	Approved for use in the Conservatory only. Alternative growth regulators will be evaluated.
A-Rest	Azaleas, poinsettias, lillies	ancymidol	Persistent and mobile	Greenhouse	Approved for use in the Conservatory only. Alternative growth regulators will be evaluated.
Attain PT 1800	Whitefly, aphids, fungus gnats, leaf rollers, scale thrips, and mites	bifenthrin	Corrosive	Conservatory use only Total release product – more effective in treating densely arranged and very tall plants	Approved: Initial application would be the pyrethroid total release Attain . This aerosol allows penetration into a 40' plant canopy of dense foliage. If needed, a follow-up application of the insect growth regulator Preclude would be used to interrupt reproduction cycles and would allow insect suppression with fewer applications of pesticides. Often, these 2 products would be all that is necessary. If insect populations escalate to catastrophic threshold levels, the choice of products rotates to Duraguard , with a follow-up of Preclude if necessary, if within one year of the earlier infestation.
Duraguard		chlorpyrifos	Highly toxic to bees	Conservatory use only	
Preclude		fenoxycarb	Probable carcinogen		
Talstar	whitefly	Bifenthrin	Restricted use,	Greenhouse, nursery, interiorscapes	Approved: Products is used as a last resort as

GC flowable			extremely toxic to fish and bees		part of an IPM program to protect valuable plant collections. This program includes weekly monitoring, release of beneficial insects, traps, and removal of problem plants. Applications are made as spot treatments. Off-target impacts are mitigated by indoor use
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